

INTERNATIONAL SEARCH REPORT

IB2005/050312

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04S3/00 H04S7/00 G01S5/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04S G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 203 315 A (ELIAHU IGAL * ZEEVI) 12 October 1988 (1988-10-12) cited in the application page 5, paragraph 3 - page 8, last paragraph page 20, paragraph 3 - page 21, paragraph 2 claims 1-11; figures 1-3,4a -----	1-9, 14-19
X	GB 2 186 367 A (ELIAHU IGAL * ZEEVI) 12 August 1987 (1987-08-12) page 1, left-hand column, line 59 - page 3, right-hand column, line 120 claims 1-15; figures 1,3 ----- ----- -/--	1-9, 14-19

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 May 2005

Date of mailing of the international search report

22.07.2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 40 27 338 A1 (DRESCHER, RUEDIGER, 7823 BONNDORF, DE; DRESCHER, RUEDIGER, 79848 BONND) 12 March 1992 (1992-03-12) column 1, line 20 - column 2, line 16 claims 1-9; figure 1 -----	1-9, 14-19
A	US 5 719 944 A (BANERJEA ET AL) 17 February 1998 (1998-02-17) column 1, line 11 - column 2, line 3 column 2, line 24 - column 4, line 55 figures 1-3 -----	1-9, 14-19
A	WO 02/08782 A (ROBERT BOSCH GMBH; HOETZEL, JUERGEN) 31 January 2002 (2002-01-31) page 1, line 15 - page 2, line 20 page 5, line 25 - page 5, line 32 figure 1 -----	1-9, 14-19

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Box II: Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III: Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-9, 14-19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9,14-19

Claim 1 specifies an audio-video system having an audio reproduction device for reproduction of audio signals via at least one loudspeaker unit, and having ultrasonic signal generating means for generating ultrasonic signals, wherein the ultrasonic signal generating means are designed to emit the ultrasonic signals to at least one of the loudspeaker units, which at least one of the loudspeaker units is designed to emit the ultrasonic signals, and having ultrasonic signal receiving means for receiving ultrasonic signals, and having ultrasonic signal-processing means for processing ultrasonic signals received by the ultrasonic signal-receiving means, wherein the ultrasonic signal-processing means are designed automatically to detect the presence of at least one person from changes in the received ultrasonic signals and to emit a detection signal.

Claim 2 further specifies the audio/video system of claim 1 in that the ultrasonic signal-processing means are designed to detect at predetermined intervals echo pattern and to compare the last detected echo pattern with at least one echo pattern detected earlier in order to detect the presence of at least one person from changes in the echo pattern.

Claims 5-7,8,9,14-18 and 19 adress other aspects of the audio-video system whereby the partial international search report already encompasses the subject-matter of these claims.

2. claims: 10,11

Dependent claim 10 further specifies the audio/video system of claim 1 in that the audio/video system is designed to prepare a user profile by recording user actions.

3. claims: 12,13

Dependent claim 12 further specifies the audio/video system of claim 1 in that the detection signals are designed to activate an alarm device.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2203315	A	12-10-1988	AU 7084687 A WO 8704799 A1	25-08-1987 13-08-1987
GB 2186367	A	12-08-1987	GB 2228324 A , B	22-08-1990
DE 4027338	A1	12-03-1992	NONE	
US 5719944	A	17-02-1998	NONE	
WO 0208782	A	31-01-2002	DE 10035222 A1 WO 0208782 A1 EP 1305651 A1 US 2004052381 A1	07-02-2002 31-01-2002 02-05-2003 18-03-2004